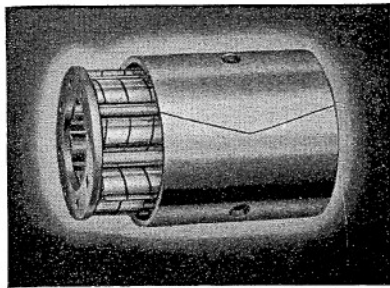
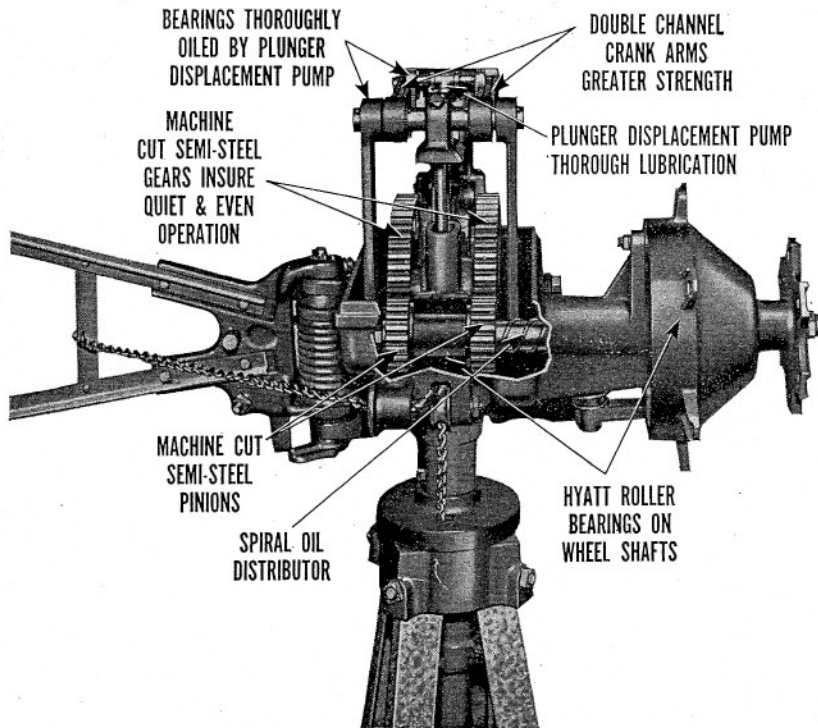
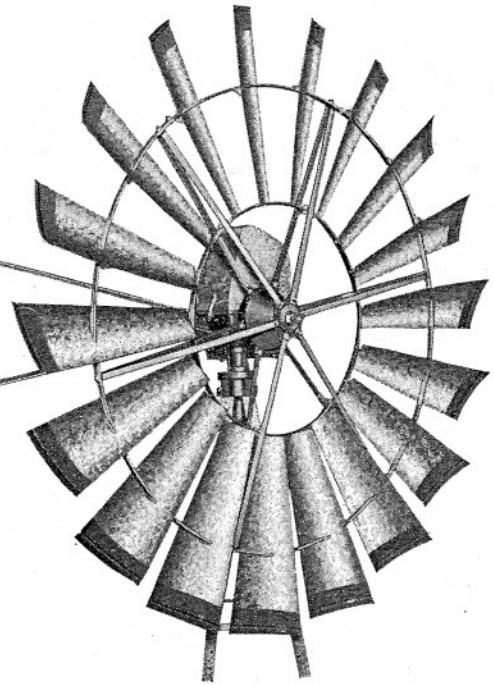


# Woodmanse "Air Master" Windmill



Genuine Hyatt Roller Bearings



BEARINGS THOROUGHLY  
OILED BY PLUNGER  
DISPLACEMENT PUMP

DOUBLE CHANNEL  
CRANK ARMS  
GREATER STRENGTH

MACHINE  
CUT SEMI-STEEL  
GEARS INSURE  
QUIET & EVEN  
OPERATION

PLUNGER DISPLACEMENT PUMP  
THROUGH LUBRICATION

MACHINE CUT  
SEMI-STEEL  
PINIONS

HYATT ROLLER  
BEARINGS ON  
WHEEL SHAFTS

SPIRAL OIL  
DISTRIBUTOR

Double gears of semi-steel with machine cut teeth. Each gear turns independently of the other. Lift is directly over load, carried equally by both gears thus overcoming excessive wear.

Self contained oil well in the case lubricates all gears and bearings on wheel shaft and main gear shaft.

Extra large Hyatt Roller Bearings on wheel shaft.

Ball bearing turntable.

Gear case or pivot housing is completely enclosed preventing rain, sleet, snow and dust from entering and mixing with oil.

Pull-out working on outside of the pivot pipe prevents friction with the moving pump rod.

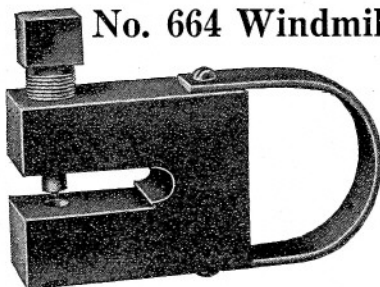
Equipment includes: ball bearing turn table, storm stay, automatic pump slide, pull-out reel and enough pull-out wire for a 40 ft. tower.

Shipped less wood pump rod.

No. 8AM—8 ft. Woodmanse "Air Master" Windmill, adjustable 6 in. and 8 in. stroke.....Weight 380 lbs.

"Air Master" 10 ft. and 12 ft. Windmills quoted on application.

## No. 664 Windmill Tower Punch



For punching  $\frac{3}{8}$  in. holes in old towers to make them fit new windmills or stub towers.

Steel frame and oil tempered high grade tool steel pin.

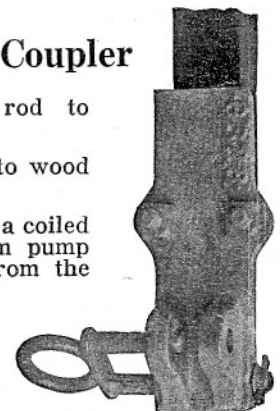
In operating, set punch in place over corner post and screw pin through the post. Both pin threads and point should be kept well oiled.

## No. G323 Windmill Coupler

For connecting windmill rod to pump.

The slide is easily attached to wood rod by a U bolt.

Pump pin is held in place by a coiled spring. Can be detached from pump without detaching the slide from the pump rod.



# AIRMASTER MILLS ARE B

MACHINE CUT SEMI-STEEL GEARS INSURE QUIET & EVEN OPERATION

DOUBLE CHANNEL CRANK ARMS GREATER STRENGTH

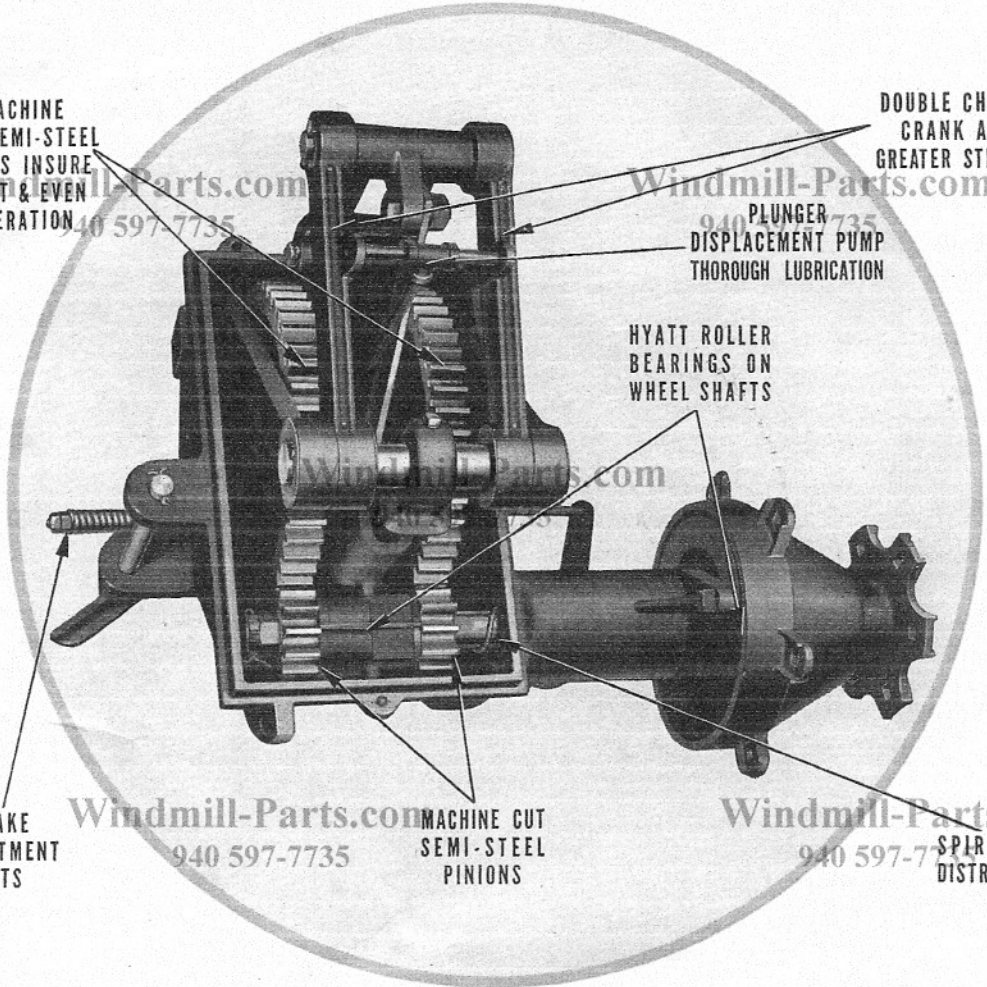
PLUNGER DISPLACEMENT PUMP THOROUGH LUBRICATION

HYATT ROLLER BEARINGS ON WHEEL SHAFTS

BRAKE ADJUSTMENT NUTS

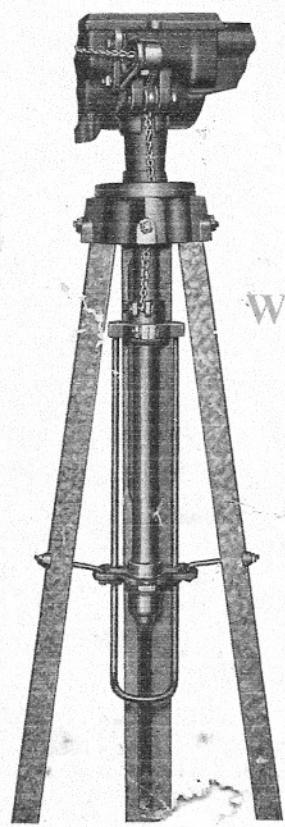
MACHINE CUT SEMI-STEEL PINIONS

SPIRAL OIL DISTRIBUTOR



- OPER**
- **Simp**
  - **Smo**
  - **Sile**
  - **Dep**
  - **Beca**

## Hyatt Roller Bearings - THOROUGH LUBRICATI



Outside Pullout

**DOUBLE GEARS** which drive crank arms are made of semi-steel with machine-cut teeth. Each turn independently of the other and mesh with semi-steel machine-cut pinions. Timing stroke holes with same teeth on each gear balances the action of gears making their action noiseless and without annoying back lash found in similar mechanisms. Lift directly over load carried equally by both gears overcoming excessive wear.

**ADJUSTABLE STROKE.** Two strokes on 6 foot size and three strokes on 8, 10 and 12 foot sizes, all of which can be changed in the field by simple change in crank arm connection. (4 1/4 and 6 inch stroke on 6 foot mill; 6, 7 and 8 inch stroke on 8 foot mill; 6, 7 and 8 inch stroke on 10 foot mill; 8, 10 and 12 inch stroke on 12 foot mill).

**PERFECT LUBRICATION.** The Giant Airmaster has a self-contained oil well in the case which lubricates main gears, pinion, crank arm bearings, bearings on wheel shaft and main gear shaft. Oil is carried out on wheel shaft by spiral distributor. The thorough lubrication of these windmills is obtained in the most direct manner possible. There is nothing to get out of order. By changing oil once a year the mill will last indefinitely.

**WHEEL HUB** or spider is cast in one piece held in place by a key. Spider is also riveted to shaft to assure safety. Shaft is made of special alloy steel.

**HYATT ROLLER BEARINGS** of extra large size are used on wheel shaft in such a manner that load is equally divided on all bearings. This permits the wheel to turn in the slightest breeze.

**BALL BEARING TURNTABLE** is of extra large size and insures easy operation of mill when turning in and out of wind. This is very important as it aids mill in governing in a light breeze or a heavy gale.

**GOVERNING DEVICE** consists of a coiled spring which can be easily adjusted. R.P.M. of the wheel can be controlled by tightening or loosening the

# WINDMILL TO LAST A LIFE-TIME

ATION

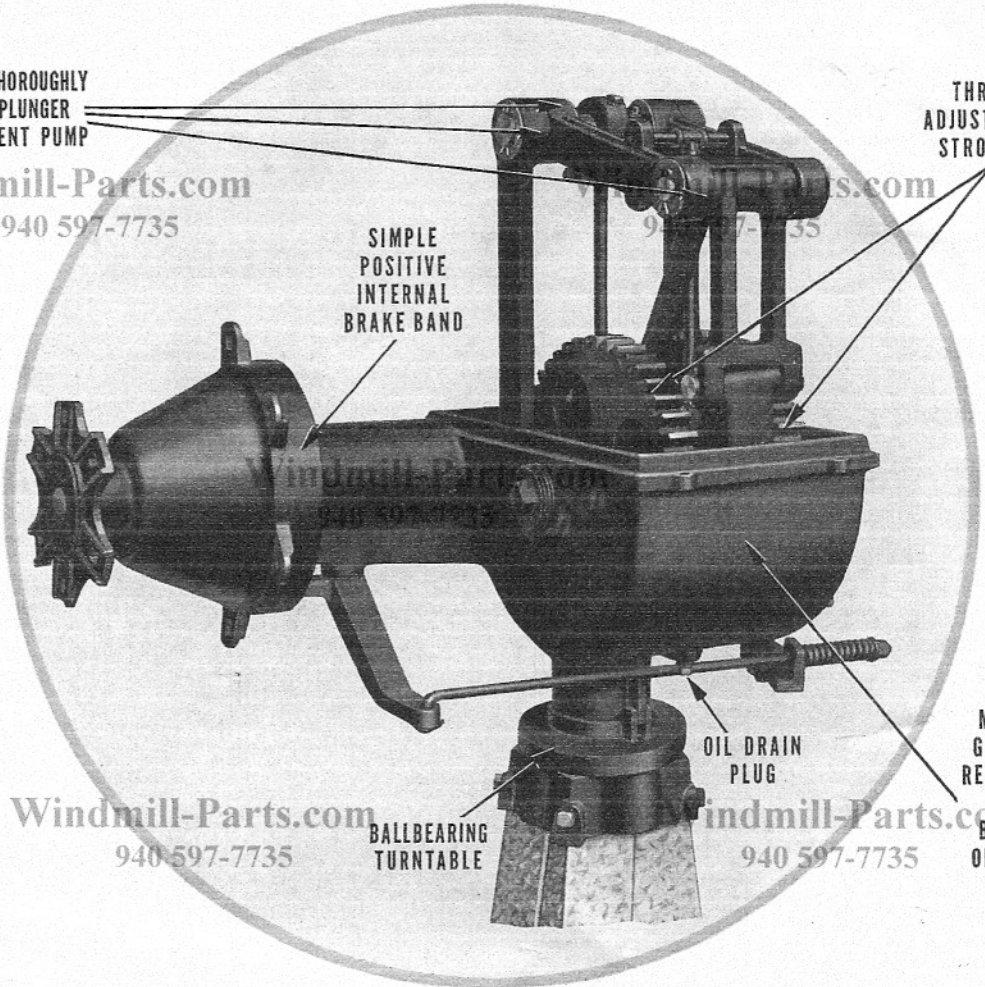
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## N - Semi-Steel Cut Gears - Balanced Power



tension on this spring. The vane is offset from center of wheel to aid governing.

**WHEELS.** The 8, 10 and 12 foot mills have six sections to a complete wheel and six wheel arms. There are three bats or wheel sails to each section. The 6 foot mill has four sections and four arms to a complete wheel with three bats or wheel sails to a section. The pitch of the wheel blade and shape of the blade is formed to obtain the greatest power in the slightest breeze. The wheel sails are made of a special galvanized stiff and springy steel sheet. Our wheels keep their original shape and are not distorted by the wind.

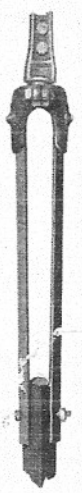
**SHAFTS.** Special alloy cold rolled steel is used on all shafts. We use 1 inch shaft on 6 foot mill for wheel shaft and gear shaft; 1 1/8 inch shaft on 8 foot mill; 1 1/4 inch shaft on 10 foot mill and 1 5/8 inch shaft on 12 foot mill.

**GEAR CASE** or pivot housing is completely enclosed preventing rain, sleet, snow and dust from entering and mixing with oil. The correct amount of oil to be used with each size mill is shipped with the mill. When refilling with oil use our ALL-WEATHER windmill oil.

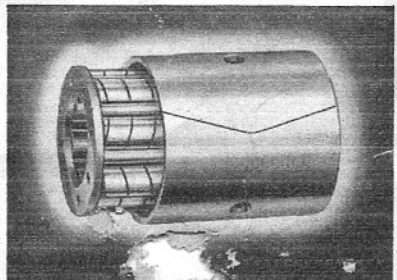
**SIMPLE BRAKE.** Heavy cast constructed brake shoe applied to inside of spider affords a simple but positive brake. The shoe, when applied, contacts over one-half of the spider surface. Brake shoe operating on inside of spider thus eliminating freezing and breakage in cold weather. Brake easily adjusted by means of double nuts on end of brake rod. Tension spring on end of brake rod relieves sudden application of brake.

**OUTSIDE PULLOUT.** The hand operated pullout working on the outside of the pivot pipe prevents friction with the moving pump rod and resultant excessive wear.

**SWIVEL.** We furnish a sturdy swivel to permit the mill to turn without disturbing the action of the pump rod. Swivel can be easily lubricated. Regular equipment includes ball-bearing turntable, storm stay, automatic pump slide, pullout reel and enough pull-out wire for a 40-foot tower. Enough windmill oil for first oiling.



Sturdy Swivel



Genuine Hyatt Roller Bearings

TURED

FREEPORT, ILLINOIS, U. S. A.